

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 April 2003 (03.04.2003)

PCT

(10) International Publication Number
WO 2003/026475 A3

(51) International Patent Classification⁷: A61B 17/10, 17/08

(21) International Application Number: PCT/IL2002/000790

(22) International Filing Date: 25 September 2002 (25.09.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: PCT/IL01/00903 25 September 2001 (25.09.2001) IL

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US PCT/IL02/00215 and (CIP)
Filed on 18 March 2002 (18.03.2002)

(71) Applicant (for all designated States except US): BY-PASS, INC. [US/US]; 40 RAMLAND ROAD, ORANGEBURG, NY 10962 (US).

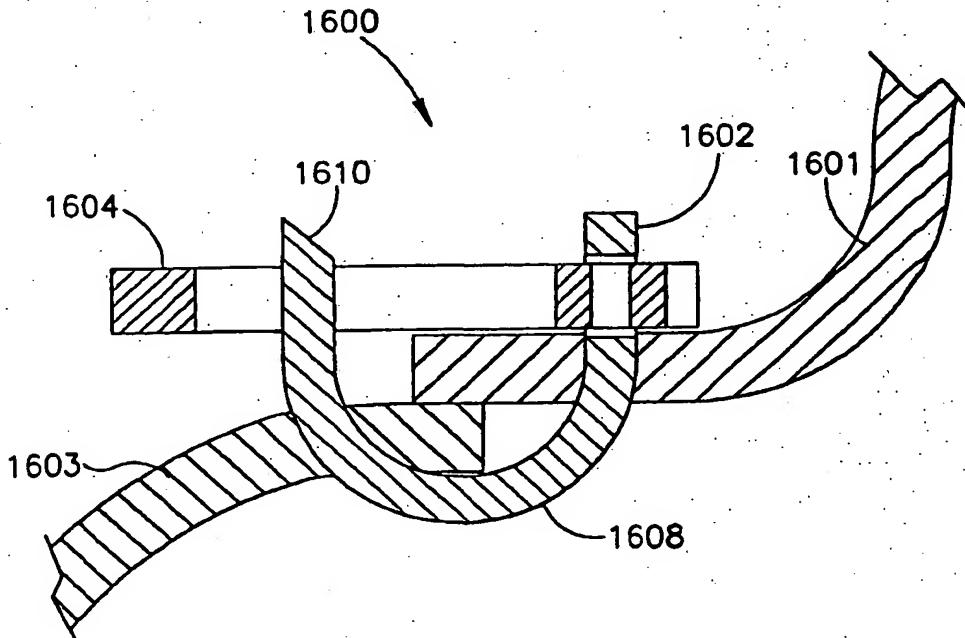
(72) Inventors; and
(75) Inventors/Applicants (for US only): LOSHAKOVE, Amir [IL/IL]; P.O. BOX 378, 60944 MOSHAV BAZRA (IL). KILEMNIK, Ido [IL/IL]; 35 NORDAU STREET, 46585 HERZELIA (IL). HEFER, Gil [IL/IL]; 8/8 HERZFELD STREET, 44415 KFAR SABA (IL). FRIEDMAN, Aharon, Shlomo [IL/IL]; 30/3 GOT LEVIN STREET, 32922 HAIFA (IL). NATIV, Ofer [IL/IL]; 11 HAMAAYAN STREET, 75210 RISHON-LEZION (IL).

(74) Agents: FENSTER, Paul et al.; Fenster & Company, Intellectual Property 2002 Ltd., P. O. Box 10256, 49002 Petach Tikva (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: ANASTOMOTIC DELIVERY SYSTEM



(57) Abstract: An anastomotic connector (200) for attaching two blood vessels comprising a plurality of eye segments (1604), each defining a channel and each including a part of an interlock mechanism (1600) on said channel; a plurality of hook segments (1602), each defining a tissue holding area, each adapted to pass through said channel and including a second part of said interlock mechanism (1600), wherein, said interlock mechanism (1600) engages for a hook and an eye segment when said hook segment

WO 2003/026475 A3



(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the International search report:
18 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL02/00790

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 17/10, 17/08

US CL : 606/142, 151, 153

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 606/142, 151, 153, 210, 211, 148, 157, 158, 113

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,901,243 A (READ) 28 August 1975, Figures 1, 2, and 3.	1-5
A,E	US 6,471,515 B2 (FEUER) 29 October 2002, see entire document.	1
X	US 5,575,800 A (GORDON) 19 November 1996, see Figures 1A-1B; 1C-1H.	6-9, 36-38, 42, 44
Y	US 5,484,451 A (AKOPOV et al.) 16 January 1996; Column 9, lines 32-36.	73
X	US 5,817,111 A (RIZA) 06 October 1998, see Figures 5, 8, 11; Column 1, lines 60-62.	15-21, 31-34
X	US 5,284,485 A (KAMMERER et al.) 08 February 1994, see Figures 5G, 5H; Column 5, lines 20-40.	23-25, 27-29
X	US 5,250,058 A (MILLER et al.) 05 October 1993; see Figures 10, 11, 13.	45-48, 50-52, 55-56
A	US 5,695,504 A (GIFFORD, III et al.) 09 December 1997, Figures 9, 17A, 28H, 28I.	45-72
Y	US 5,236,437 A (WILK et al.) 17 August 1993; see Fig. 5.	73

Further documents are listed in the continuation of Box C.



See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

18 March 2003 (18.03.2003)

Date of mailing of the international search report

06 MAY 2003

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Authorized officer
Michael J. Milano
Michael J. Milano

Telphone No. (703) 308-1148

PCT/IL02/00790

INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,323,765 A (BROWN) 28 June 1994; Figures 21, 25, 27, 31.	30
A,E	US 6,497,710 B2 (YENCHO et al) 24 December 2002, see entire document.	1